

Supplement to
PERFORMANCE OF SELECTED MATERIALS
USED IN LINERS AND DRAWERS OF REFRIGERATORS

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TABLE 19.--Weight (g.) of 2-inch Samples of Three Plastic Materials and Porcelain Enamel Before and After Abrasion at Three Levels.

Material and Abrasion Level	Sample No.	Initial Weight	Final Weight	Weight Change	Material and Abrasion Level	Sample No.	Initial Weight	Final Weight	Weight Change
ABS, 2-Year	101	8.3392	8.3413	0.0021	Porcelain, 2-Year	201	19.7769	19.7762	-0.0007
	102	8.3778	8.3807	0.0029		202	20.1756	20.1750	-0.0006
	103	7.1005	7.1036	0.0031		203	19.8555	19.8549	-0.0006
	104	7.5414	7.5431	0.0017		204	19.7517	19.7512	-0.0005
	105	8.1104	8.1122	0.0018		205	19.3257	19.3251	-0.0006
	106	8.0390	8.0408	0.0018		206	19.5600	19.5593	-0.0007
	107	8.9383	8.9385	0.0002		207	19.9157	19.9151	-0.0006
	108	9.1935	9.1950	0.0015		208	19.7332	19.7329	-0.0003
	Average	8.2050	8.2069	0.0019		Average	19.7618	19.7612	-0.0006
ABS, 5-Year	111	8.1200	8.1212	0.0012	Porcelain, 5-Year	211	19.7781	19.7774	-0.0007
	112	8.1160	8.1151	-0.0009		212	19.9308	19.9302	-0.0006
	113	8.6551	8.6541	-0.0010		213	19.4413	19.4406	-0.0007
	114	7.9646	7.9653	0.0007		214	19.9419	19.9412	-0.0007
	115	8.0856	8.0834	-0.0022		215	19.8630	19.8624	-0.0006
	116	7.5312	7.5306	-0.0006		216	19.7376	19.7370	-0.0006
	117	7.6882	7.6861	-0.0021		217	19.5981	19.5976	-0.0005
	118	7.2193	7.2207	0.0014		218	19.7367	19.7361	-0.0006
	Average	7.9225	7.9221	-0.0004		Average	19.7534	19.7528	-0.0006
ABS, 10-Year	121	7.5958	7.5970	0.0012	Porcelain, 10-Year	221	19.4317	19.4310	-0.0007
	122	7.9915	7.9875	-0.0040		222	19.5426	19.5417	-0.0009
	123	8.5685	8.5566	-0.0119		223	19.6543	19.6531	-0.0012
	124	8.1753	8.1686	-0.0067		224	19.4068	19.4059	-0.0009
	125	8.7624	8.7583	-0.0041		225	19.8575	19.8563	-0.0012
	126	9.6555	9.6457	-0.0098		226	20.0244	20.0237	-0.0007
	127	9.4491	9.4460	-0.0031		227	19.9462	19.9453	-0.0009
	128	9.4828	9.4786	-0.0042		228	19.7857	19.7849	-0.0008
	Average	8.7101	8.7048	-0.0053		Average	19.7061	19.7052	-0.0009

TABLE 19 (Continued).--Weight (g.) of 2-inch Samples of Three Plastic Materials and Porcelain Enamel Before and After Abrasion at Three Levels.

Material and Abrasion Level	Sample No.	Initial Weight	Final Weight	Weight Change	Material and Abrasion Level	Sample No.	Initial Weight	Final Weight	Weight Change
Polystyrene, 2-Year	301	7.1142	7.1153	0.0011	Polycarbonate, 2-Year	401	8.7554	8.7554	0.0000
	302	6.8084	6.8100	0.0016		402	7.5567	7.5559	-0.0008
	303	7.3630	7.3613	-0.0017		403	8.4674	8.4667	-0.0007
	304	6.2672	6.2694	0.0022		404	8.4399	8.4384	-0.0015
	305	6.9850	6.9846	-0.0004		405	8.6529	8.6512	-0.0017
	306	7.8981	7.8975	-0.0006		406	--	--	--
	307	6.8120	6.8138	0.0018		407	9.0004	8.9984	-0.0020
	308	6.7473	6.7483	0.0010		408	8.8933	8.8925	-0.0008
Average		6.9994	7.0000	-0.0006	Average		8.5380	8.5369	-0.0011
Polystyrene, 5-Year	311	8.1004	8.0997	-0.0007	Polycarbonate, 5-Year	411	8.5895	8.5879	-0.0016
	312	6.7424	6.7441	0.0017		412	8.6220	8.6138	-0.0082
	313	8.0606	8.0546	-0.0060		413	8.3816	8.3745	-0.0071
	314	6.9570	6.9565	-0.0005		414	7.4435	7.4428	-0.0007
	315	7.8620	7.8597	-0.0023		415	8.4993	8.4907	-0.0086
	316	7.9373	7.9328	-0.0045		416	8.3235	8.3176	-0.0059
	317	7.1460	7.1427	-0.0033		417	7.7722	7.7675	-0.0047
	318	6.4948	6.4941	-0.0007		418	7.5386	7.5358	-0.0028
Average		7.4125	7.4105	-0.0020	Average		8.1463	8.1413	-0.0050
Polystyrene, 10-Year	321	7.2786	7.2749	-0.0037	Polycarbonate, 10-Year	421	7.5283	7.5271	-0.0012
	322	7.2000	7.1962	-0.0038		422	8.4673	8.4520	-0.0153
	333	7.5200	7.5066	-0.0134		423	--	--	--
	334	7.7468	7.7410	-0.0058		424	7.7182	7.7152	-0.0030
	335	7.9073	7.8995	-0.0078		425	8.1390	8.1248	-0.0142
	336	8.1377	8.1285	-0.0092		426	7.7564	7.7524	-0.0040
	337	6.9798	6.9779	-0.0019		427	8.2281	8.2176	-0.0105
	338	6.7198	6.7133	-0.0065		428	8.5322	8.5222	-0.0100
Average		7.4362	7.4297	-0.0065	Average		8.0528	8.0445	-0.0083

TABLE 20.--Gloss Readings Before and After Two Levels of Abrasion on Porcelain Enamel and Three Plastic Materials.

Material	Repl- cation	Initial	Final	Change	Material	Repl- cation	Initial	Final	Change
<u>2-Year Abrasion Level</u>					<u>2-Year Abrasion Level</u>				
Porce- lain	1	6.3	6.9	0.3	ABS	1	5.0	3.5	-1.5
	2	6.3	6.9	0.3		2	5.0	2.4	-2.6
	3	6.2	6.8	0.6		3	5.8	3.9	-1.9
	4	6.0	6.8	0.8		4	5.3	5.1	-0.2
	5	6.4	6.8	0.4		5	5.9	3.8	-2.1
	6	6.7	6.9	0.2		6	5.1	3.5	-1.6
	7	6.4	6.8	0.4		7	4.1	2.2	-1.9
	8	6.3	6.9	0.3		8	5.5	1.6	-3.9
	9	6.4	6.9	0.5		9	4.9	2.5	-2.4
	10	6.5	7.3	0.8		10	4.1	3.6	-0.5
Average		6.3	6.9	0.6	Average		5.1	3.2	-1.9
<u>5-Year Abrasion Level</u>					<u>5-Year Abrasion Level</u>				
Porce- lain	1	6.4	6.8	0.4	ABS	1	4.9	3.6	-1.3
	2	6.3	6.8	0.5		2	5.6	4.2	-1.4
	3	6.4	6.7	0.3		3	4.2	4.4	0.2
	4	6.4	6.8	0.4		4	5.4	2.5	-2.9
	5	6.3	7.0	0.7		5	4.5	3.5	-1.0
	6	6.1	7.0	0.9		6	3.9	3.6	-0.3
	7	5.9	6.9	1.0		7	4.3	1.6	-2.7
	8	6.2	6.9	0.7		8	4.3	3.4	-0.9
	9	6.0	6.7	0.7		9	3.9	2.9	-1.0
	10	6.2	6.9	0.7		10	4.9	1.9	-3.0
Average		6.2	6.8	0.6	Average		4.6	3.2	-1.4
<u>2-Year Abrasion Level</u>					<u>2-Year Abrasion Level</u>				
Poly- car- bonate	1	8.7	4.2	-4.5	Poly- styrene	1	6.4	2.8	-3.6
	2	8.3	4.5	-3.8		2	5.8	3.0	-2.8
	3	8.0	4.9	-3.1		3	5.6	1.4	-4.2
	4	6.5	5.0	-1.5		4	5.8	2.9	-2.9
	5	7.8	4.6	-3.2		5	6.1	2.0	-4.1
	6	7.8	4.3	-3.5		6	4.4	1.1	-3.3
	7	8.0	3.5	-4.5		7	6.0	3.0	-3.0
	8	7.4	4.9	-2.5		8	5.0	1.9	-3.1
	9	7.8	5.8	-2.0		9	6.3	1.6	-4.7
	10	8.9	4.0	-4.9		10	6.2	1.9	-4.3
Average		7.9	4.6	-3.3	Average		5.8	2.2	-3.6

TABLE 20 (Continued).--Gloss Readings Before and After Two Levels of Abrasion on Porcelain Enamel and Three Plastic Materials.

Material	Repli- cation	Initial	Final	Change	Material	Repli- cation	Initial	Final	Change
<u>5-Year Abrasion Level</u>					<u>5-Year Abrasion Level</u>				
Poly- car- bonate	1	8.4	4.2	-4.2	Poly- styrene	1	5.8	1.1	-4.7
	2	7.8	3.8	-4.0		2	4.7	1.1	-3.6
	3	7.8	3.6	-4.2		3	6.2	1.5	-4.7
	4	8.4	5.1	-3.3		4	5.9	1.3	-4.6
	5	8.6	3.6	-5.0		5	6.2	1.1	-5.1
	6	6.8	3.0	-3.8		6	5.8	1.6	-4.2
	7	6.6	4.1	-2.5		7	6.2	1.1	-5.1
	8	7.7	2.3	-5.4		8	6.9	2.1	-4.7
	9	7.6	3.9	-3.7		9	5.7	1.5	-4.2
	10	8.3	4.5	-3.8		10	6.0	1.1	-4.9
Average		7.8	3.8	-4.0	Average		5.9	1.3	-4.6

TABLE 21.--Judges' Evaluations of Food Stain Retention on Abraded and Unabraded Surfaces of Porcelain and Selected Plastics After Cleaning by Three Methods (Seven Judges).

Material and Level of Abrasion	Replication*	Cranberry			Spinach			Strawberry			Control		
		Soda	Detergent		Soda	Detergent		Soda	Detergent		Soda	Detergent	
		40° C. S M I**	40° C. S M I	60° C. S M I	40° C. S M I	40° C. S M I	60° C. S M I	40° C. S M I	40° C. S M I	60° C. S M I	40° C. S M I	40° C. S M I	60° C. S M I
ABS													
Unabraded	1	0 0 0	0 0 0	0 0 0	8 0 0	4 0 1	0 0 0	2 0 0	0 0 0	0 0 0	No discoloration observed		
	2	0 0 0	0 0 0	0 0 0	2 0 0	2 0 0	0 0 0	0 0 0	0 0 0	0 0 0			
	3	0 0 0	0 0 0	0 0 0	6 0 0	4 1 0	3 0 0	0 0 0	0 0 0	0 0 0			
Abraded, 2-yr.	1	0 0 0	0 0 0	0 0 0	0 3 4	0 2 5	4 0 0	0 0 0	0 0 0	1 0 0			
	2	0 0 0	0 0 0	0 0 0	0 4 3	3 3 0	6 1 0	1 0 0	0 0 0	0 0 0			
	3	0 0 0	0 0 0	0 0 0	0 2 5	7 0 0	0 0 0	0 0 0	0 0 0	0 0 0			
Abraded, 5-yr.	1	0 0 0	0 0 0	0 0 0	0 0 7	1 4 1	0 7 0	0 0 0	0 0 0	0 0 0			
	2	0 0 0	0 0 0	0 0 0	0 0 7	1 5 1	0 5 2	0 0 0	0 0 0	0 0 0			
	3	0 0 0	1 0 0	0 0 0	0 6 1	0 5 2	4 3 0	0 0 0	0 0 0	0 0 0			
Poly-styrene Unabraded	1	No discoloration observed											
	2												
	3												
Abraded, 2-yr.	1	0 0 0	1 0 0	0 0 0	3 0 0	4 0 0	1 0 0	0 0 0	No discoloration observed				
	2	0 0 0	0 0 0	0 0 0	1 0 0	0 0 0	1 0 0	0 0 0					
	3	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0					
Abraded, 5-yr.	1	0 0 0	2 0 0	0 0 0	2 0 0	1 0 0	1 0 0	1 0 0	No discoloration observed				
	2	0 0 0	0 0 0	0 0 0	2 1 0	6 1 0	0 0 0	0 0 0					
	3	0 0 0	0 0 0	0 0 0	1 0 0	0 0 0	0 0 0	0 0 0					
Polycarbonate		No discoloration observed											
Porcelain		No discoloration observed											

*No. observations per replication and treatment: unabraded, 14; abraded, 7.

**S = slight discoloration, M = moderate discoloration, I = intense discoloration.

TABLE 22.--Readings for Gloss* and Color** (Average of Three Samples) for Refrigerator Materials Subjected to Four Staining Types of Food and Cleaned by Three Methods.

Material, Abrasion Level, and Stain	Gloss				Rd				a				b			
	Initial		Final		Initial		Final		Initial		Final		Initial		Final	
	U	A***	U	A	U	A	U	A	U	A	U	A	U	A	U	A
Detergent - 40° C. (104° F.)																
<u>ABS, 2-yr.</u>																
Blank	4.8	3.5	4.9	4.0	74.8	75.6	74.7	75.4	-1.9	-1.8	-1.9	-1.7	1.0	1.1	1.7	1.6
Cranberry	4.8	3.5	5.1	4.2	74.8	75.6	74.7	76.4	-1.9	-1.8	-1.7	-1.6	1.0	1.1	1.7	1.7
Spinach	5.2	3.8	5.5	4.1	74.6	75.6	74.5	75.6	-1.9	-1.9	-1.7	-1.6	1.0	0.6	2.3	3.7
Strawberry	5.2	3.8	5.5	4.0	74.6	75.6	74.4	75.1	-1.9	-1.9	-1.8	-1.6	1.0	0.6	1.8	1.7
<u>ABS, 5-yr.</u>																
Blank	4.8	3.5	4.9	2.6	74.6	75.7	75.9	76.1	-1.9	-2.1	-2.3	-2.0	1.0	0.6	0.5	1.1
Cranberry	4.8	3.5	4.9	2.6	74.6	75.7	74.8	77.2	-1.9	-2.1	-2.2	-2.1	1.0	0.6	0.6	0.4
Spinach	4.9	3.2	5.3	3.8	74.5	75.7	74.4	76.0	-2.0	-2.0	-1.8	-1.9	0.9	0.6	1.4	1.9
Strawberry	4.9	3.2	5.0	3.4	74.4	75.7	76.0	75.6	-2.0	-2.0	-1.9	-1.9	0.9	0.6	1.2	0.8

*Hunter Multi-purpose Reflectometer; standard, 5.4.

**Gardner Automatic Color Difference Meter; white standard -- Rd = 74.5, a = -1.7, and b = 1.8. On both instruments aperture was reduced from 4 inches to 2 inches.

***U = unabraded; A = abraded.

TABLE 22 (Continued).--Readings for Gloss* and Color** (Average of Three Samples) for Refrigerator Materials Subjected to Four Staining Types of Food and Cleaned by Three Methods.

Material, Abrasion Level, and Stain	Gloss				Rd				a				b			
	Initial		Final		Initial		Final		Initial		Final		Initial		Final	
	U	A***	U	A	U	A	U	A	U	A	U	A	U	A	U	A
Detergent - 40° C. (104° F.)																
Polystyrene, 2-yr.																
Blank	6.1	2.2	5.8	2.4	77.4	79.0	78.3	82.8	-2.4	-2.2	-1.7	-2.1	-0.1	-0.2	-0.1	0
Cranberry	6.1	2.2	5.9	2.4	77.4	79.0	78.0	81.2	-2.4	-2.2	-1.7	-1.6	-0.1	-0.2	0	-0.1
Spinach	5.1	2.0	5.8	2.4	76.7	75.2	78.4	80.3	-2.3	-2.2	-2.1	-1.6	-0.3	-0.3	0.1	0.1
Strawberry	5.1	2.0	4.2	1.7	76.7	75.2	74.2	76.0	-2.3	-2.2	-1.7	-1.6	-0.3	-0.3	-0.2	0
Polystyrene, 5-yr.																
Blank	5.9	1.5	5.8	1.8	82.1	79.1	77.9	79.0	-1.5	-1.4	-1.8	-1.8	0.7	0.7	0.1	0.1
Cranberry	5.9	1.5	5.7	1.8	82.1	79.1	78.1	80.0	-1.5	-1.3	-1.8	-1.6	0.7	0.6	0.1	0
Spinach	6.2	1.2	5.7	1.2	85.3	81.5	77.9	77.6	-1.3	-1.2	-1.7	-1.6	0.8	0.8	-0.3	0
Strawberry	6.2	1.2	5.9	1.3	85.3	81.5	78.6	77.0	-1.3	-1.2	-1.8	-1.7	0.8	0.8	-0.3	-0.1

TABLE 22 (Continued).--Readings for Gloss* and Color** (Average of Three Samples) for Refrigerator Materials Subjected to Four Staining Types of Food and Cleaned by Three Methods.

Material, Abrasion Level, and Stain	Gloss				Rd				a				b			
	Initial		Final		Initial		Final		Initial		Final		Initial		Final	
	U	A***	U	A	U	A	U	A	U	A	U	A	U	A	U	A
Detergent - 40° C. (104° F.)																
Porcelain, 2-yr.																
Blank	6.3	6.8	6.2	6.1	80.4	81.1	81.9	82.0	-3.0	-2.9	-2.5	-1.6	0.9	1.1	1.2	1.4
Cranberry	6.4	6.8	5.5	5.8	80.4	81.1	82.0	82.2	-3.0	-2.9	-2.6	-2.4	0.9	1.1	1.1	1.2
Spinach	6.3	6.9	5.9	6.4	81.0	81.1	82.2	82.1	-2.9	-2.9	-2.4	-2.3	1.2	1.3	1.4	1.5
Strawberry	6.3	6.9	5.8	6.1	81.0	81.1	82.1	82.4	-2.9	-2.9	-2.5	-2.4	1.2	1.3	1.4	1.4
Porcelain, 5-yr.																
Blank	6.3	6.8	6.1	6.3	83.1	83.2	82.8	82.7	-2.5	-2.4	-2.4	-2.4	1.0	1.1	1.3	1.4
Cranberry	6.3	6.8	5.4	5.9	83.1	83.2	83.1	82.7	-2.5	-2.4	-2.4	-2.4	1.0	1.1	1.3	1.4
Spinach	6.2	6.7	5.9	6.2	82.8	82.9	82.8	82.7	-2.6	-2.5	-2.3	-2.2	0.9	0.9	1.7	2.0
Strawberry	6.2	6.7	5.6	6.0	82.8	82.8	83.3	83.2	-2.6	-2.5	-2.3	-2.4	0.9	0.9	1.6	2.0

TABLE 22 (Continued).--Readings for Gloss* and Color** (Average of Three Samples) for Refrigerator Materials Subjected to Four Staining Types of Food and Cleaned by Three Methods.

Material, Abrasion Level and Stain	Gloss				Rd				a				b			
	Initial		Final		Initial		Final		Initial		Final		Initial		Final	
	U	A***	U	A	U	A	U	A	U	A	U	A	U	A	U	A
Detergent - 60° C. (140° F.)																
<u>ABS, 2-yr.</u>																
Blank	4.8	2.9	4.9	3.7	75.1	76.2	74.9	75.9	-1.9	-1.9	-1.9	-1.9	0.8	0.2	1.2	1.1
Cranberry	4.8	2.9	5.2	3.3	75.1	76.2	74.1	77.2	-1.9	-1.9	-1.9	-1.8	0.8	0.2	1.3	1.1
Spinach	5.4	3.0	5.6	3.3	75.0	75.9	74.7	77.0	-2.0	-1.9	-1.8	-2.0	0.7	0.4	1.5	2.1
Strawberry	5.4	3.0	5.2	3.6	75.0	75.9	75.0	75.8	-2.0	-1.9	-2.0	-1.9	0.7	0.4	1.4	1.3
<u>ABS, 5-yr.</u>																
Blank	4.2	2.7	4.1	3.0	74.4	75.2	75.3	76.1	-2.1	-2.2	-2.3	-2.4	1.0	0.4	0.7	0.2
Cranberry	4.2	2.7	4.2	2.6	74.4	75.2	75.4	77.6	-2.1	-2.2	-3.5	-2.4	1.0	0.4	0.4	0.3
Spinach	4.5	3.2	4.3	3.4	74.3	75.4	75.3	76.6	-2.0	-2.1	-2.4	-2.1	1.1	0.7	0.9	2.4
Strawberry	4.5	3.2	4.2	3.9	74.3	75.4	75.2	76.2	-2.0	-2.1	-3.4	-3.2	1.1	0.7	0.6	0.3

TABLE 22 (Continued).--Readings for Gloss* and Color** (Average of Three Samples) for Refrigerator Materials Subjected to Four Staining Types of Food and Cleaned by Three Methods.

Material, Abrasion Level, and Stain	Gloss				Rd				a				b			
	Initial		Final		Initial		Final		Initial		Final		Initial		Final	
	U	A***	U	A	U	A	U	A	U	A	U	A	U	A	U	A
Detergent - 60° C. (140° F.)																
Polystyrene, 2-yr.																
Blank	6.0	2.1	5.7	2.3	77.9	82.3	78.8	79.6	-1.8	-1.8	-0.6	-0.7	0	-0.1	-0.1	0.1
Cranberry	6.0	2.1	5.6	2.3	77.9	82.3	78.6	80.3	-1.8	-1.8	-0.4	-0.4	0	-0.1	0	0
Spinach	5.7	2.6	5.5	2.4	77.3	78.0	78.1	79.7	-1.7	-1.7	-1.3	-1.2	0	0	0.3	0.4
Strawberry	5.7	2.6	5.5	2.3	77.3	78.0	78.1	78.2	-1.7	-1.7	-1.5	-1.3	0	0	0.2	0.2
Polystyrene, 5-yr.																
Blank	5.9	1.4	5.7	2.1	78.1	77.0	78.6	76.7	-1.7	-1.7	-2.0	-2.1	0.2	0.2	-0.8	-0.7
Cranberry	5.9	1.4	5.6	1.5	78.1	77.0	78.0	77.6	-1.7	-1.7	-1.9	-1.4	0.2	0.2	-0.8	-0.5
Spinach	5.6	1.5	5.8	1.6	78.4	80.0	77.9	80.8	-1.5	-1.6	-1.8	-1.8	0.1	0.5	-0.4	-0.1
Strawberry	5.6	1.5	5.5	2.0	78.4	80.0	78.3	79.9	-1.5	-1.6	-1.8	-1.8	0.1	0.5	-0.4	-0.2

TABLE 22 (Continued).--Readings for Gloss* and Color** (Average of Three Samples) for Refrigerator Materials Subjected to Four Staining Types of Food and Cleaned by Three Methods.

Material, Abrasion Level, and Stain	Gloss				Rd				a				b			
	Initial		Final		Initial		Final		Initial		Final		Initial		Final	
	U	A***	U	A	U	A	U	A	U	A	U	A	U	A	U	A
Detergent - 60° C. (140° F.)																
<u>Porcelain, 2-yr.</u>																
Blank	6.4	6.8	6.2	6.4	82.2	82.2	83.5	83.3	-2.7	-2.6	-2.3	-2.1	1.5	1.7	1.8	1.9
Cranberry	6.4	6.8	5.7	8.6	82.2	82.2	83.8	83.6	-2.7	-2.6	-2.2	-2.0	1.5	1.7	1.8	1.9
Spinach	6.3	6.8	5.9	6.4	81.6	81.8	82.8	82.7	-2.9	-2.8	-2.9	-2.1	1.1	1.6	1.5	1.6
Strawberry	6.3	6.8	5.9	6.6	81.6	81.8	83.2	83.1	-2.9	-2.8	-2.5	-2.3	1.1	1.6	1.6	1.6
<u>Porcelain, 5-yr.</u>																
Blank	6.3	6.7	6.1	6.4	83.8	84.0	83.7	83.9	-2.2	-2.0	-2.4	-2.5	2.0	2.1	1.9	2.0
Cranberry	6.3	6.7	5.3	5.6	83.8	84.0	84.3	84.4	-2.2	-2.0	-2.4	-2.6	2.0	2.1	2.0	1.9
Spinach	6.3	6.7	5.9	6.4	83.0	83.3	82.9	83.2	-2.3	-2.1	-2.4	-2.2	1.5	1.8	1.5	1.7
Strawberry	6.3	6.7	5.7	5.8	83.0	83.3	82.9	82.9	-2.3	-2.1	-2.3	-2.3	1.5	1.8	1.5	1.7

TABLE 22 (Continued).--Readings for Gloss* and Color** (Average of Three Samples) for Refrigerator Materials Subjected to Four Staining Types of Food and Cleaned by Three Methods.

Material Abrasion Level, and Stain	Gloss				Rd				a				b			
	Initial		Final		Initial		Final		Initial		Final		Initial		Final	
	U	A***	U	A	U	A	U	A	U	A	U	A	U	A	U	A
Soda - 40° C. (104° F.)																
<u>ABS, 2-yr.</u>																
Blank	5.5	3.5	5.5	3.9	74.4	75.5	74.5	76.6	-1.9	-1.8	-1.7	-1.8	0.9	0.7	1.7	1.6
Cranberry	5.6	3.5	5.4	3.9	74.5	75.5	74.6	75.3	-1.9	-1.8	-1.8	-1.7	1.0	0.7	1.6	1.5
Spinach	4.9	3.0	5.1	3.1	74.8	75.1	74.4	74.9	-1.9	-1.8	-1.7	-1.6	1.2	1.0	2.5	4.3
Strawberry	4.9	3.0	5.2	3.9	74.8	75.1	74.4	75.6	-1.9	-1.8	-1.2	-1.7	1.2	1.0	1.3	1.8
<u>ABS, 5-yr.</u>																
Blank	4.3	2.3	5.2	2.8	75.0	76.0	74.4	75.9	-1.9	-2.1	-1.3	-1.1	0.6	0.4	1.0	1.0
Cranberry	4.3	2.3	5.0	2.2	75.0	76.0	74.5	74.9	-1.9	-2.1	-1.2	-1.3	0.6	0.4	1.1	1.0
Spinach	4.7	3.0	4.9	3.8	74.4	75.2	73.7	72.4	-1.8	-2.0	-1.3	-1.1	1.1	0.9	1.7	2.5
Strawberry	4.7	3.0	5.0	4.0	74.4	75.2	74.1	74.0	-1.8	-2.0	-1.3	-1.1	1.1	0.8	1.4	0.9

TABLE 22 (Continued).--Readings for Gloss* and Color** (Average of Three Samples) for Refrigerator Materials Subjected to Four Staining Types of Food and Cleaned by Three Methods.

Material, Abrasion Level, and Stain	Gloss				Rd				a				b			
	Initial		Final		Initial		Final		Initial		Final		Initial		Final	
	U	A***	U	A	U	A	U	A	U	A	U	A	U	A	U	A
Soda - 40° C. (104° F.)																
Polystyrene, 2-yr.																
Blank	6.0	1.7	5.9	2.1	77.4	78.1	78.6	78.9	-2.1	-2.1	-0.9	-0.5	-0.3	-0.4	-0.2	-0.3
Cranberry	6.0	1.7	5.6	2.0	77.4	78.1	77.9	79.4	-2.1	-2.1	-0.8	-0.4	-0.3	-0.4	-0.2	0
Spinach	6.0	2.3	5.8	2.8	77.6	78.1	78.5	81.3	-1.9	-1.7	-0.6	-0.5	0	0	0.1	0.3
Strawberry	6.0	2.3	5.4	2.3	77.6	78.1	77.8	79.2	-1.9	-1.7	-0.6	-0.5	0	0	0	0.2
Polystyrene, 5-yr.																
Blank	6.2	1.2	6.0	1.8	78.9	80.2	78.6	79.4	-1.6	-1.6	-2.0	-2.0	0	0	-1.1	-1.1
Cranberry	6.2	1.2	6.0	1.6	78.9	80.2	78.4	77.4	-1.6	-1.6	-1.9	-1.8	0	0	-1.1	-1.1
Spinach	6.4	1.9	6.0	2.0	78.5	79.6	78.6	80.6	-1.6	-1.6	-2.0	-2.0	0.5	0.4	-0.4	-0.3
Strawberry	6.4	1.9	5.8	2.0	78.5	79.6	78.4	79.2	-1.6	-1.6	-1.9	-1.9	0.5	0.4	-0.4	-0.4

TABLE 22 (Continued).--Readings for Gloss* and Color** (Average of Three Samples) for Refrigerator Materials Subjected to Four Staining Types of Food and Cleaned by Three Methods.

Material, Abrasion Level, and Stain	Gloss				Rd				a				b			
	Initial		Final		Initial		Final		Initial		Final		Initial		Final	
	U	A***	U	A	U	A	U	A	U	A	U	A	U	A	U	A
Soda - 40° C. (104° F.)																
<u>Porcelain, 2-yr.</u>																
Blank	6.3	6.8	6.4	6.5	82.0	82.1	82.5	82.5	-2.8	-2.5	-2.6	-2.4	1.6	1.8	1.7	1.9
Cranberry	6.3	6.8	5.7	5.9	82.0	82.1	82.8	82.7	-2.8	-2.5	-2.6	-2.4	1.6	1.8	1.7	1.8
Spinach	6.2	6.7	5.6	6.4	81.4	81.5	81.7	81.4	-2.8	-2.7	-2.6	-2.3	1.2	1.4	1.5	1.6
Strawberry	6.2	6.7	5.9	5.8	81.4	81.4	82.0	82.2	-2.8	-2.7	-2.6	-2.7	1.2	1.4	1.4	1.6
<u>Porcelain, 5-yr.</u>																
Blank	6.1	6.8	5.9	6.2	82.8	82.3	83.1	82.4	-2.3	-2.2	-3.3	-3.3	1.9	1.9	1.4	1.3
Cranberry	6.1	6.8	5.1	5.7	82.8	82.3	83.7	83.3	-2.3	-2.2	-2.4	-2.5	1.9	1.9	1.3	1.4
Spinach	6.2	6.9	5.7	6.6	81.9	82.3	82.2	79.2	-2.4	-2.2	-2.3	-2.4	1.5	2.0	1.0	1.5
Strawberry	6.2	6.9	5.7	5.7	81.9	82.3	82.3	82.4	-2.4	-2.2	-2.5	-2.4	1.5	2.0	0.9	1.0

TABLE 23.--Judges' Evaluations of Food Odor Retention in Selected Refrigerator Materials After Cleaning by Three Methods.

Material	Abrasion Level	Repli- cation	Total No. of Judges	Food Odors				
				Beef	Cante- loupe	Milk	Onion	Blank
Soda Solution, 40° C.								
ABS	none	1	5	1	5	5	5	0
		2	5	1	5	2	5	0
	2 yr.	1	5	0	5	5	5	0
		2	5	2	5	1	5	0
	5 yr.	1	5	1	5	5	5	0
		2	5	2	5	2	5	0
Porcelain	none	1	5	0	0	0	0	0
		2	5	0	0	0	0	0
	2 yr.	1	5	1	0	0	0	0
		2	5	0	0	0	0	0
	5 yr.	1	5	0	0	0	0	0
		2	5	0	0	0	0	0
Polystyrene	none	1	5	1	5	5	5	0
		2	5	1	5	1	5	0
	2 yr.	1	5	1	5	5	5	0
		2	5	2	5	1	5	0
	5 yr.	1	5	1	4	5	5	0
		2	5	1	5	2	5	0
Polycarbonate	none	1	5	1	2	5	5	0
		2	5	0	3	1	3	0
	2 yr.	1	5	0	5	5	5	0
		2	5	2	4	3	5	0
	5 yr.	1	5	1	5	4	5	0
		2	5	0	3	2	4	0

TABLE 23 (Continued).--Evaluations of Food Odor Retention in Selected Refrigerator Materials After Cleaning by Three Methods.

Material	Abrasion Level	Repli- cation	Total No. of Judges	Food Odors				
				Beef	Cante- loupe	Milk	Onion	Blank
Nonperfumed Detergent, 40° C.								
ABS	none	1	4	1	4	4	4	0
		2	5	1	5	1	5	0
	2 yr.	1	4	0	4	4	4	0
		2	5	2	4	2	5	0
	5 yr.	1	4	0	4	4	4	0
		2	5	3	5	2	5	0
Porcelain	none	1	4	0	1	0	0	0
		2	5	0	0	0	0	0
	2 yr.	1	4	0	0	0	0	0
		2	5	0	0	0	0	0
	5 yr.	1	4	0	0	0	0	0
		2	5	0	0	0	0	0
Polystyrene	none	1	4	0	4	4	4	0
		2	5	0	4	0	4	0
	2 yr.	1	4	1	4	3	4	0
		2	5	1	4	1	5	0
	5 yr.	1	4	0	2	4	4	0
		2	5	0	5	1	5	0
Polycarbonate	none	1	4	0	0	1	4	0
		2	5	0	1	2	2	0
	2 yr.	1	4	0	0	3	4	0
		2	5	1	0	1	5	0
	5 yr.	1	4	1	2	4	4	0
		2	5	0	3	2	3	0

TABLE 23 (Continued).--Judges' Evaluations of Food Odor Retention in Selected Refrigerator Materials After Cleaning by Three Methods.

Material	Abrasion Level	Replication	Total No. of Judges	Food Odors				
				Beef	Cante-loupe	Milk	Onion	Blank
Nonperfumed Detergent, 60° C.								
ABS	none	1	4	1	4	4	4	0
		2	5	0	4	1	5	0
	2 yr.	1	4	1	4	4	4	0
		2	5	1	5	2	5	0
	5 yr.	1	4	1	4	4	4	0
		2	5	1	5	1	5	0
Porcelain	none	1	4	0	0	0	1	0
		2	5	2	0	0	0	0
	2 yr.	1	4	0	1	0	0	0
		2	5	1	0	0	0	0
	5 yr.	1	4	0	1	1	0	0
		2	5	0	0	0	0	0
Polystyrene	none	1	4	1	4	4	4	0
		2	5	0	4	0	5	0
	2 yr.	1	4	1	4	4	4	0
		2	5	1	5	2	5	0
	5 yr.	1	4	0	4	4	4	0
		2	5	2	4	2	5	0
Polycarbonate	none	1	4	0	3	3	4	0
		2	5	0	1	0	2	0
	2 yr.	1	4	1	0	3	4	0
		2	5	1	3	2	5	0
	5 yr.	1	4	1	4	4	4	0
		2	5	2	3	2	5	0

TABLE 24.--Survival of a Mold and Two Species of Bacteria on Unabraded and Abraded Surfaces of Porcelain and Three Plastics for Four Storage Periods at 4° C.

Material and Replication No.	Unabraded	Abraded	
		2-year Level	5-Year Level
<u>Mucor</u> Mold, 24 Hours			
ABS			
1	1.60 x 10 ¹	2.10 x 10 ¹	3.10 x 10 ¹
2	3.10 x 10 ¹	3.00 x 10 ¹	2.40 x 10 ¹
3	2.70 x 10 ¹	2.50 x 10 ¹	3.50 x 10 ¹
Average	2.47 x 10 ¹	2.53 x 10 ¹	3.00 x 10 ¹
Polycarbonate			
1	2.50 x 10 ¹	3.80 x 10 ¹	2.70 x 10 ¹
2	2.30 x 10 ¹	1.70 x 10 ¹	3.90 x 10 ¹
3	3.40 x 10 ¹	1.30 x 10 ¹	4.30 x 10 ¹
Average	2.73 x 10 ¹	2.27 x 10 ¹	3.63 x 10 ¹
Polystyrene			
1	3.50 x 10 ¹	1.10 x 10 ¹	3.00 x 10 ¹
2	2.60 x 10 ¹	1.90 x 10 ¹	3.60 x 10 ¹
3	2.10 x 10 ¹	2.30 x 10 ¹	4.60 x 10 ¹
Average	2.73 x 10 ¹	1.77 x 10 ¹	3.73 x 10 ¹
Porcelain			
1	1.30 x 10 ¹	1.50 x 10 ¹	3.00 x 10 ¹
2	2.00 x 10 ¹	2.80 x 10 ¹	2.50 x 10 ¹
3	3.40 x 10 ¹	2.10 x 10 ¹	2.80 x 10 ¹
Average	2.23 x 10 ¹	2.13 x 10 ¹	2.77 x 10 ¹

TABLE 24 (Continued).--Survival of a Mold and Two Species of Bacteria on Unabraded and Abraded Surfaces of Porcelain and Three Plastics for Four Storage Periods at 4° C.

Material and Replication No.	Unabraded	Abraded	
		2-year Level	5-year Level
<u>Mucor</u> Mold, 7 Days			
ABS			
1	2.20 x 10 ¹	3.40 x 10 ¹	2.20 x 10 ¹
2	2.90 x 10 ¹	2.00 x 10 ¹	2.80 x 10 ¹
3	2.10 x 10 ¹	2.40 x 10 ¹	2.30 x 10 ¹
Average	2.40 x 10 ¹	2.60 x 10 ¹	2.43 x 10 ¹
Polycarbonate			
1	2.20 x 10 ¹	4.70 x 10 ¹	3.00 x 10 ¹
2	1.40 x 10 ¹	3.50 x 10 ¹	4.50 x 10 ¹
3	3.10 x 10 ¹	5.00 x 10 ¹	3.80 x 10 ¹
Average	2.23 x 10 ¹	4.40 x 10 ¹	3.77 x 10 ¹
Polystyrene			
1	3.00 x 10 ¹	0.70 x 10 ¹	2.10 x 10 ¹
2	1.40 x 10 ¹	3.50 x 10 ¹	2.70 x 10 ¹
3	2.20 x 10 ¹	2.20 x 10 ¹	2.50 x 10 ¹
Average	2.20 x 10 ¹	2.13 x 10 ¹	2.43 x 10 ¹
Porcelain			
1	1.20 x 10 ¹	1.50 x 10 ¹	2.60 x 10 ¹
2	2.30 x 10 ¹	2.70 x 10 ¹	3.10 x 10 ¹
3	3.20 x 10 ¹	2.10 x 10 ¹	2.10 x 10 ¹
Average	2.23 x 10 ¹	2.10 x 10 ¹	2.60 x 10 ¹

TABLE 24 (Continued).--Survival of a Mold and Two Species of Bacteria on Unabraded and Abraded Surfaces of Porcelain and Three Plastics for Four Storage Periods at 4° C.

Material and Replication No.	Unabraded	Abraded	
		2-year Level	5-year Level
<u>Mucor</u> Mold, 14 Days			
ABS			
1	2.40 x 10 ¹	2.90 x 10 ¹	1.30 x 10 ¹
2	1.70 x 10 ¹	1.20 x 10 ¹	2.60 x 10 ¹
3	3.00 x 10 ¹	3.10 x 10 ¹	2.20 x 10 ¹
Average	2.37 x 10 ¹	2.40 x 10 ¹	2.03 x 10 ¹
Polycarbonate			
1	4.00 x 10 ¹	1.60 x 10 ¹	2.30 x 10 ¹
2	3.40 x 10 ¹	2.40 x 10 ¹	2.20 x 10 ¹
3	1.10 x 10 ¹	1.40 x 10 ¹	1.10 x 10 ¹
Average	2.83 x 10 ¹	1.80 x 10 ¹	1.87 x 10 ¹
Polystyrene			
1	1.50 x 10 ¹	1.30 x 10 ¹	2.30 x 10 ¹
2	2.20 x 10 ¹	2.20 x 10 ¹	3.10 x 10 ¹
3	1.50 x 10 ¹	1.00 x 10 ¹	1.90 x 10 ¹
Average	1.73 x 10 ¹	1.50 x 10 ¹	2.43 x 10 ¹
Porcelain			
1	1.90 x 10 ¹	0.90 x 10 ¹	1.30 x 10 ¹
2	1.80 x 10 ¹	1.70 x 10 ¹	3.00 x 10 ¹
3	1.30 x 10 ¹	3.00 x 10 ¹	2.10 x 10 ¹
Average	1.67 x 10 ¹	1.87 x 10 ¹	2.13 x 10 ¹

TABLE 24 (Continued).--Survival of a Mold and Two Species of Bacteria on Unabraded and Abraded Surfaces of Porcelain and Three Plastics for Four Storage Periods at 4° C.

Material and Replication No.	Unabraded	Abraded	
		2-year Level	5-year Level
<u>Mucor</u> Mold, 28 Days			
ABS			
1	2.50 x 10 ¹	3.50 x 10 ¹	0.80 x 10 ¹
2	2.20 x 10 ¹	2.60 x 10 ¹	0.60 x 10 ¹
3	1.60 x 10 ¹	1.00 x 10 ¹	3.70 x 10 ¹
Average	2.10 x 10 ¹	2.37 x 10 ¹	1.70 x 10 ¹
Polycarbonate			
1	2.80 x 10 ¹	1.70 x 10 ¹	1.60 x 10 ¹
2	2.40 x 10 ¹	0.60 x 10 ¹	2.50 x 10 ¹
3	3.00 x 10 ¹	3.40 x 10 ¹	1.00 x 10 ¹
Average	2.73 x 10 ¹	1.90 x 10 ¹	1.70 x 10 ¹
Polystyrene			
1	1.60 x 10 ¹	0.70 x 10 ¹	2.60 x 10 ¹
2	2.10 x 10 ¹	1.90 x 10 ¹	1.60 x 10 ¹
3	2.00 x 10 ¹	1.20 x 10 ¹	2.20 x 10 ¹
Average	1.90 x 10 ¹	1.27 x 10 ¹	2.13 x 10 ¹
Porcelain			
1	2.00 x 10 ¹	0.80 x 10 ¹	1.40 x 10 ¹
2	2.00 x 10 ¹	1.60 x 10 ¹	1.40 x 10 ¹
3	1.70 x 10 ¹	1.10 x 10 ¹	1.30 x 10 ¹
Average	1.90 x 10 ¹	1.17 x 10 ¹	1.37 x 10 ¹

TABLE 24 (Continued).--Survival of a Mold and Two Species of Bacteria on Unabraded and Abraded Surfaces of Porcelain and Three Plastics for Four Storage Periods at 4° C.

Material and Replication No.	Unabraded	Abraded	
		2-year Level	5-year Level
<u>Pseudomonas fragi</u> , 24 Hours			
ABS			
1	1.02 x 10 ⁸ 1.17 x 10 ⁸	1.03 x 10 ⁷ 1.17 x 10 ⁷	1.04 x 10 ⁸ 9.45 x 10 ⁷
2	8.15 x 10 ⁷ 9.20 x 10 ⁷	1.98 x 10 ⁷ 2.64 x 10 ⁷	9.50 x 10 ⁷ 1.00 x 10 ⁸
3	6.40 x 10 ⁷ 5.90 x 10 ⁷	8.20 x 10 ⁵ 3.30 x 10 ³	1.05 x 10 ⁸ 1.11 x 10 ⁸
Average	8.59 x 10 ⁷	1.15 x 10 ⁷	1.02 x 10 ⁸
Polycarbonate			
1	1.19 x 10 ⁸ 1.20 x 10 ⁸	6.60 x 10 ⁷ 6.90 x 10 ⁷	6.90 x 10 ⁷ 5.20 x 10 ⁷
2	9.25 x 10 ⁷ 8.60 x 10 ⁷	8.00 x 10 ⁵ 9.80 x 10 ⁵	6.00 x 10 ⁷ 4.90 x 10 ⁷
3	6.60 x 10 ⁷ 7.75 x 10 ⁷	6.30 x 10 ⁷ 6.55 x 10 ⁷	4.90 x 10 ⁷ 3.50 x 10 ⁷
Average	9.37 x 10 ⁷	4.42 x 10 ⁷	5.23 x 10 ⁷
Polystyrene			
1	9.35 x 10 ⁷ 9.50 x 10 ⁷	1.31 x 10 ⁸ 1.24 x 10 ⁸	9.90 x 10 ⁷ 1.10 x 10 ⁸
2	1.10 x 10 ⁸ 1.01 x 10 ⁸	1.78 x 10 ⁸ 1.84 x 10 ⁸	1.09 x 10 ⁸ 1.04 x 10 ²
3	1.55 x 10 ⁸ 1.51 x 10 ⁸	1.55 x 10 ⁸ 1.54 x 10 ⁸	1.15 x 10 ⁸ 9.15 x 10 ⁷
Average	1.18 x 10 ⁸	1.54 x 10 ⁸	8.74 x 10 ⁷
Porcelain			
1	7.20 x 10 ⁷ 6.75 x 10 ⁷	1.01 x 10 ⁸ 9.65 x 10 ⁷	1.08 x 10 ⁸ 9.80 x 10 ⁷
2	1.95 x 10 ⁸ 1.24 x 10 ⁸	1.05 x 10 ⁸ 1.03 x 10 ⁸	7.70 x 10 ⁷ 1.10 x 10 ⁸
3	1.09 x 10 ⁸ 9.80 x 10 ⁷	8.20 x 10 ⁷ 9.50 x 10 ⁷	1.17 x 10 ⁸ 1.10 x 10 ⁸
Average	1.11 x 10 ⁸	9.71 x 10 ⁷	1.03 x 10 ⁸

TABLE 24 (Continued).--Survival of a Mold and Two Species of Bacteria on Unabraded and Abraded Surfaces of Porcelain and Three Plastics for Four Storage Periods at 4° C.

Material and Replication No.	Unabraded	Abraded	
		2-year Level	5-year Level
<u>Pseudomonas fragi</u> , 7 Days			
ABS			
1	4.24 x 10 ⁷ 3.10 x 10 ⁷	2.50 x 10 ⁷ 2.60 x 10 ⁷	2.50 x 10 ⁷ 2.50 x 10 ⁷
2	4.90 x 10 ⁷ 5.70 x 10 ⁷	3.80 x 10 ⁷ 3.10 x 10 ⁷	5.90 x 10 ⁷ 4.30 x 10 ⁷
3	4.50 x 10 ⁷ 4.70 x 10 ⁷	3.15 x 10 ⁷ 3.40 x 10 ⁷	3.20 x 10 ⁷ 3.70 x 10 ⁷
Average	4.52 x 10 ⁷	3.09 x 10 ⁷	3.68 x 10 ⁷
Polycarbonate			
1	1.95 x 10 ⁷ 1.80 x 10 ⁷	3.13 x 10 ⁷ 1.53 x 10 ⁷	4.04 x 10 ⁷ 3.53 x 10 ⁷
2	4.08 x 10 ⁷ 4.08 x 10 ⁷	3.20 x 10 ⁷ 3.30 x 10 ⁷	4.54 x 10 ⁷ 5.30 x 10 ⁷
3	2.75 x 10 ⁷ 2.80 x 10 ⁷	2.40 x 10 ⁷ 2.60 x 10 ⁷	2.05 x 10 ⁷ 2.10 x 10 ⁷
Average	2.91 x 10 ⁷	2.69 x 10 ⁷	3.59 x 10 ⁷
Polystyrene			
1	6.30 x 10 ⁷ 3.94 x 10 ⁷	4.00 x 10 ⁷ 3.60 x 10 ⁷	2.70 x 10 ⁷ 3.00 x 10 ⁷
2	3.60 x 10 ⁷ 4.30 x 10 ⁷	4.50 x 10 ⁷ 3.80 x 10 ⁷	1.50 x 10 ⁷ 1.30 x 10 ⁷
3	7.40 x 10 ⁷ 8.90 x 10 ⁷	5.20 x 10 ⁷ 5.10 x 10 ⁷	2.92 x 10 ⁷ 2.36 x 10 ⁷
Average	5.74 x 10 ⁷	4.37 x 10 ⁷	2.30 x 10 ⁷
Porcelain			
1	1.77 x 10 ⁷ 1.82 x 10 ⁷	2.40 x 10 ⁷ 1.70 x 10 ⁷	8.30 x 10 ⁶ 1.02 x 10 ⁷
2	2.35 x 10 ⁷ 2.00 x 10 ⁷	1.04 x 10 ⁷ 1.36 x 10 ⁷	1.64 x 10 ⁷ 1.35 x 10 ⁷
3	1.48 x 10 ⁷ 1.60 x 10 ⁷	1.50 x 10 ⁷ 1.60 x 10 ⁷	2.22 x 10 ⁷ 1.12 x 10 ⁷
Average	1.84 x 10 ⁷	1.60 x 10 ⁷	1.36 x 10 ⁷

TABLE 24 (Continued).--Survival of a Mold and Two Species of Bacteria on Unabraded and Abraded Surfaces of Porcelain and Three Plastics for Four Storage Periods at 4° C.

Material and Replication No.	Unabraded	Abraded	
		2-year Level	5-year Level
<u>Pseudomonas fragi</u> , 14 Days			
ABS			
1	4.84 x 10 ⁷ 3.80 x 10 ⁷	3.70 x 10 ⁷ 4.40 x 10 ⁷	2.56 x 10 ⁷ 2.72 x 10 ⁷
2	1.74 x 10 ⁷ 1.66 x 10 ⁷	6.60 x 10 ³ 7.30 x 10 ³	1.20 x 10 ⁶ 1.19 x 10 ⁶
3	5.80 x 10 ⁷ 6.80 x 10 ⁷	5.50 x 10 ⁷ 5.40 x 10 ⁷	2.90 x 10 ⁷ 2.53 x 10 ⁷
Average	4.11 x 10 ⁷	3.17 x 10 ⁷	1.82 x 10 ⁷
Polycarbonate			
1	6.70 x 10 ⁷ 6.90 x 10 ⁷	5.70 x 10 ⁷ 6.40 x 10 ⁷	9.00 x 10 ⁷ 6.60 x 10 ⁷
2	2.96 x 10 ⁷ 3.00 x 10 ⁷	1.40 x 10 ⁷ 1.50 x 10 ⁷	1.00 x 10 ³ 9.00 x 10 ²
3	5.60 x 10 ⁷ 4.80 x 10 ⁷	1.65 x 10 ⁷ 1.80 x 10 ⁷	2.40 x 10 ⁷ 2.08 x 10 ⁷
Average	4.99 x 10 ⁷	3.08 x 10 ⁷	3.35 x 10 ⁷
Polystyrene			
1	2.96 x 10 ⁸ 2.53 x 10 ⁸	5.40 x 10 ⁷ 4.70 x 10 ⁸	4.10 x 10 ⁷ 3.90 x 10 ⁷
2	8.10 x 10 ⁷ 8.40 x 10 ⁷	5.40 x 10 ⁷ 5.60 x 10 ⁷	8.40 x 10 ⁶ 8.30 x 10 ⁶
3	5.10 x 10 ⁷ 3.40 x 10 ⁸	4.90 x 10 ⁷ 4.70 x 10 ⁷	2.24 x 10 ⁷ 2.60 x 10 ⁷
Average	1.84 x 10 ⁸	1.22 x 10 ⁸	2.42 x 10 ⁷
Porcelain			
1	4.18 x 10 ⁷ 3.64 x 10 ⁷	3.67 x 10 ⁷ 3.03 x 10 ⁷	1.83 x 10 ⁷ 1.75 x 10 ⁷
2	2.40 x 10 ⁷ 2.32 x 10 ⁷	1.20 x 10 ⁶ 1.00 x 10 ⁶	1.52 x 10 ⁷ 1.49 x 10 ⁷
3	3.32 x 10 ⁷ 4.02 x 10 ⁷	9.90 x 10 ⁷ 5.40 x 10 ⁷	2.20 x 10 ⁷ 1.90 x 10 ⁷
Average	3.31 x 10 ⁷	3.70 x 10 ⁷	1.78 x 10 ⁷

TABLE 24 (Continued).--Survival of a Mold and Two Species of Bacteria on Unabraded and Abraded Surfaces of Porcelain and Three Plastics for Four Storage Periods at 4° C.

Material and Replication No.	Unabraded	Abraded	
		2-year Level	5-year Level
<u>Pseudomonas fragi</u> , 28 Days			
ABS			
1	1.20 x 10 ⁵	1.00 x 10 ⁵	3.06 x 10 ⁵
	1.20 x 10 ⁵	1.20 x 10 ⁵	2.20 x 10 ⁵
2	1.50 x 10 ⁵	1.60 x 10 ⁵	1.00 x 10 ⁵
	1.90 x 10 ⁵	2.00 x 10 ⁵	1.80 x 10 ⁵
3	1.40 x 10 ⁵	1.10 x 10 ⁵	1.80 x 10 ⁵
	1.50 x 10 ⁵	1.30 x 10 ⁵	2.10 x 10 ⁵
Average	1.45 x 10 ⁵	1.37 x 10 ⁵	1.99 x 10 ⁵
Polycarbonate			
1	3.10 x 10 ⁵	6.50 x 10 ⁵	3.20 x 10 ⁵
	3.70 x 10 ⁵	4.60 x 10 ⁵	3.60 x 10 ⁵
2	2.80 x 10 ⁵	4.40 x 10 ⁵	5.60 x 10 ⁵
	3.40 x 10 ⁵	4.30 x 10 ⁵	4.90 x 10 ⁵
3	3.60 x 10 ⁵	6.00 x 10 ⁵	4.10 x 10 ⁵
	3.90 x 10 ⁵	4.96 x 10 ⁵	3.80 x 10 ⁵
Average	3.42 x 10 ⁵	5.13 x 10 ⁵	4.20 x 10 ⁵
Polystyrene			
1	9.90 x 10 ⁴	3.10 x 10 ⁵	1.60 x 10 ⁵
	1.20 x 10 ⁵	1.90 x 10 ⁵	1.60 x 10 ⁵
2	1.50 x 10 ⁵	2.00 x 10 ⁵	1.30 x 10 ⁵
	1.20 x 10 ⁵	1.47 x 10 ⁵	1.06 x 10 ⁵
3	1.30 x 10 ⁵	1.50 x 10 ⁵	1.00 x 10 ⁵
	1.00 x 10 ⁵	1.60 x 10 ⁵	1.20 x 10 ⁵
Average	1.20 x 10 ⁵	1.93 x 10 ⁵	1.29 x 10 ⁵
Porcelain			
1	5.00 x 10 ⁵	3.70 x 10 ⁵	1.06 x 10 ⁵
	4.60 x 10 ⁵	1.50 x 10 ⁵	1.56 x 10 ⁵
2	1.50 x 10 ⁵	9.00 x 10 ⁴	7.00 x 10 ⁴
	2.17 x 10 ⁵	1.30 x 10 ⁵	9.00 x 10 ⁴
3	3.10 x 10 ⁵	2.00 x 10 ⁵	1.30 x 10 ⁵
	3.00 x 10 ⁵	1.50 x 10 ⁵	1.60 x 10 ⁵
Average	3.23 x 10 ⁵	1.81 x 10 ⁵	1.19 x 10 ⁵

TABLE 24 (Continued).--Survival of a Mold and Two Species of Bacteria on Unabraded and Abraded Surfaces of Porcelain and Three Plastics for Four Storage Periods at 4° C.

Material and Replication No.	Unabraded	Abraded	
		2-year Level	5-year Level
<u>Salmonella oranienberg</u> , 24 Hours			
ABS			
1	1.04 x 10 ⁶	2.21 x 10 ⁶	1.05 x 10 ⁷
	1.01 x 10 ⁶	2.73 x 10 ⁶	1.20 x 10 ⁷
2	2.39 x 10 ⁶	8.10 x 10 ⁵	2.20 x 10 ⁶
	1.23 x 10 ⁶	6.20 x 10 ⁵	2.20 x 10 ⁶
3	1.04 x 10 ⁷	1.72 x 10 ⁶	5.00 x 10 ⁴
	1.87 x 10 ⁷	1.80 x 10 ⁶	4.50 x 10 ⁴
Average	5.80 x 10 ⁶	1.65 x 10 ⁶	4.50 x 10 ⁶
Polycarbonate			
1	1.60 x 10 ⁴	6.60 x 10 ⁵	8.30 x 10 ⁴
	1.50 x 10 ⁴	5.60 x 10 ⁵	1.50 x 10 ⁵
2	2.30 x 10 ⁵	1.01 x 10 ⁵	2.80 x 10 ⁵
	2.20 x 10 ⁵	2.12 x 10 ⁵	2.90 x 10 ⁵
3	1.90 x 10 ⁴	8.50 x 10 ⁶	3.30 x 10 ⁶
	1.90 x 10 ⁴	9.20 x 10 ⁶	3.30 x 10 ⁶
Average	8.65 x 10 ⁴	3.21 x 10 ⁶	1.23 x 10 ⁶
Polystyrene			
1	9.30 x 10 ⁶	1.07 x 10 ⁶	1.00 x 10 ⁶
	7.70 x 10 ⁶	7.10 x 10 ⁵	8.70 x 10 ⁵
2	1.94 x 10 ⁷	2.32 x 10 ⁶	1.90 x 10 ⁷
	2.22 x 10 ⁶	2.12 x 10 ⁶	1.70 x 10 ⁷
3	3.90 x 10 ⁶	2.09 x 10 ⁶	9.80 x 10 ⁵
	3.40 x 10 ⁶	2.22 x 10 ⁶	1.04 x 10 ⁶
Average	7.65 x 10 ⁶	1.76 x 10 ⁶	6.82 x 10 ⁶
Porcelain			
1	4.70 x 10 ⁶	1.76 x 10 ⁶	1.06 x 10 ⁷
	5.70 x 10 ⁶	1.80 x 10 ⁶	1.12 x 10 ⁷
2	8.40 x 10 ⁶	7.10 x 10 ⁶	1.10 x 10 ⁷
	8.10 x 10 ⁶	7.50 x 10 ⁵	9.80 x 10 ⁶
3	7.70 x 10 ⁶	2.20 x 10 ⁶	9.00 x 10 ⁶
	7.00 x 10 ⁶	2.22 x 10 ⁶	7.70 x 10 ⁶
Average	6.93 x 10 ⁶	2.64 x 10 ⁶	9.88 x 10 ⁶

TABLE 24 (Continued).--Survival of a Mold and Two Species of Bacteria on Unabraded and Abraded Surfaces of Porcelain and Three Plastics for Four Storage Periods at 40 C.

Material and Replication No.	Unabraded	Abraded	
		2-year Level	5-year Level
<u>Salmonella oranienberg</u> , 7 Days			
ABS			
1	1.60 x 10 ⁴	2.80 x 10 ³	1.60 x 10 ³
	1.30 x 10 ⁴	4.90 x 10 ³	1.80 x 10 ³
2	2.60 x 10 ⁴	2.40 x 10 ⁴	3.10 x 10 ⁴
	2.20 x 10 ⁴	3.40 x 10 ⁴	3.50 x 10 ⁴
3	4.60 x 10 ⁵	1.80 x 10 ⁴	6.00 x 10 ²
	4.00 x 10 ⁵	1.80 x 10 ⁴	9.00 x 10 ²
Average	1.56 x 10 ⁵	1.70 x 10 ⁴	1.18 x 10 ⁴
Polycarbonate			
1	2.00 x 10 ³	6.80 x 10 ³	4.26 x 10 ³
	1.60 x 10 ³	4.90 x 10 ³	4.50 x 10 ³
2	4.50 x 10 ³	1.60 x 10 ⁴	1.90 x 10 ⁴
	4.10 x 10 ³	2.00 x 10 ⁴	2.00 x 10 ⁴
3	1.00 x 10 ³	5.00 x 10 ⁴	1.00 x 10 ⁴
	1.30 x 10 ³	4.80 x 10 ⁴	1.43 x 10 ⁴
Average	2.42 x 10 ³	2.43 x 10 ⁴	1.20 x 10 ⁴
Polystyrene			
1	2.00 x 10 ⁵	1.00 x 10 ⁴	4.90 x 10 ⁴
	1.80 x 10 ⁵	1.75 x 10 ⁴	3.30 x 10 ⁴
2	6.00 x 10 ⁴	2.20 x 10 ⁴	6.00 x 10 ⁴
	9.00 x 10 ⁴	1.40 x 10 ⁴	5.00 x 10 ⁴
3	2.90 x 10 ⁴	9.00 x 10 ³	2.80 x 10 ⁴
	2.60 x 10 ⁴	5.00 x 10 ³	2.20 x 10 ⁴
Average	9.75 x 10 ⁴	1.29 x 10 ⁴	4.03 x 10 ⁴
Porcelain			
1	4.00 x 10 ⁴	2.00 x 10 ³	9.60 x 10 ⁴
	4.60 x 10 ⁴	2.60 x 10 ³	1.00 x 10 ⁵
2	8.60 x 10 ⁴	4.56 x 10 ³	2.40 x 10 ⁵
	7.00 x 10 ⁴	4.30 x 10 ³	2.60 x 10 ⁵
3	1.30 x 10 ⁵	1.10 x 10 ⁴	1.38 x 10 ⁵
	1.40 x 10 ⁶	1.40 x 10 ⁴	1.60 x 10 ⁵
Average	2.95 x 10 ⁵	6.41 x 10 ³	1.66 x 10 ⁵

TABLE 24 (Continued).--Survival of a Mold and Two Species of Bacteria on Unabraded and Abraded Surfaces of Porcelain and Three Plastics for Four Storage Periods at 40° C.

Material and Replication No.	Unabraded	Abraded	
		2-year Level	5-year Level
<u>Salmonella oranienberg</u> , 14 Days			
ABS			
1	1.00 x 10 ²	No count	No count
	1.00 x 10 ²	No count	No count
2	3.00 x 10 ²	5.00 x 10 ²	No count
	4.00 x 10 ²	6.00 x 10 ²	No count
3	2.50 x 10 ²	1.40 x 10 ³	9.00 x 10 ¹
	1.50 x 10 ²	1.10 x 10 ³	9.00 x 10 ¹
Average	2.16 x 10 ²	9.00 x 10 ²	9.00 x 10 ¹
Polycarbonate			
1	1.00 x 10 ²	5.00 x 10 ²	4.00 x 10 ²
	No count	2.00 x 10 ²	4.00 x 10 ²
2	1.00 x 10 ²	7.00 x 10 ²	7.00 x 10 ²
	No count	5.00 x 10 ²	1.00 x 10 ³
3	1.00 x 10 ²	4.00 x 10 ²	3.00 x 10 ²
	2.00 x 10 ²	6.00 x 10 ²	No count
Average	1.25 x 10 ²	4.83 x 10 ²	5.60 x 10 ²
Polystyrene			
1	1.00 x 10 ³	1.20 x 10 ³	5.00 x 10 ²
	1.00 x 10 ³	1.50 x 10 ³	5.00 x 10 ²
2	6.50 x 10 ³	1.00 x 10 ²	2.00 x 10 ²
	6.80 x 10 ³	5.00 x 10 ²	2.00 x 10 ²
3	2.30 x 10 ³	2.50 x 10 ²	2.00 x 10 ²
	2.90 x 10 ³	3.00 x 10 ²	No count
Average	3.42 x 10 ³	6.42 x 10 ²	3.20 x 10 ²
Porcelain			
1	6.00 x 10 ²	No count	5.00 x 10 ²
	3.00 x 10 ²	No count	5.50 x 10 ²
2	5.00 x 10 ²	1.00 x 10 ²	8.00 x 10 ²
	No count	No count	8.00 x 10 ²
3	8.00 x 10 ²	3.00 x 10 ²	No count
	1.20 x 10 ³	1.00 x 10 ²	No count
Average	6.80 x 10 ²	1.67 x 10 ²	6.62 x 10 ²